

2001

A CAREER ODYSSEY



Summer Conference

Technology Education Association
of Missouri (TEAM)

July 23-27, 2001

Pear Tree Inn ♦ Springfield

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Missouri Department of Elementary
and Secondary Education

Science and technology multiply around us. To an increasing extent they dictate the languages in which we speak and think. Either we use those languages, or we remain mute.

— J.G. Ballard

The *Mission* of the Technology Education Programs

The overarching mission of Technology Education in Missouri is to build citizen understanding of, and capability with, technology. This enables students to attain appropriate education/employment objectives, fulfill citizenship responsibilities, and pursue meaningful leisure activities in a technological society. As the new basic, technology education systematically addresses three critically important missions by developing each student's:

- ◆ Ability to understand, evaluate, and apply industrial and technological systems.
- ◆ Values and attitudes related to the appropriate use and assessment of tools, machines, materials, processes, and products.
- ◆ Ability to use and assess technology to achieve constructive work skills and enhance occupational opportunity.



The *Goals* of the Technology Education Programs

Students in technology education experience a systematic program that:

- ◆ Develops an understanding of, and compatibility with technology — its processes, materials, equipment, and products.
- ◆ Reinforces general education's basic skills.
- ◆ Builds basic skills in the safe use of tools, machines, and processes used by industry and technology.
- ◆ Develops technological problem-solving and attitudes and fosters creativity.
- ◆ Contributes to meaningful occupational choice.
- ◆ Encourages cooperative attitudes and constructive work habits that will help secure and maintain employment.
- ◆ Develops consumer skills.
- ◆ Prepares for entrance into advanced secondary and post-secondary vocational/technical as well as university programs.
- ◆ Provides an alternative learning mode.
- ◆ Reinforces the free enterprise system and stimulates leadership behavior.

The Scope and Sequence of the Technology Education Programs

The Missouri Technology Education program is designed to follow the natural pattern of student development by guiding students through a series of courses that progresses through four main levels. All TE courses reinforce the key basics of Missouri's core disciplines and all provide rich opportunity for interdisciplinary activity.

Level	Description
ONE: Awareness (grades K-6)	Elementary School Technology Education builds an initial awareness of the technological world by infusing technology-based activities into the regular school curriculum while reinforcing basic mathematics, science, language arts, and social studies skills.
TWO: Foundation Building (grades 6-9)	Introduction to Technology builds a foundation of technological understanding and capability. Students systematically survey Energy and Power, Materials and Processes, and Communications technology with demonstrations and practical activities that develop understanding, attitude, skill, and problem-solving capabilities with the tools, machines, and processes of technology.
THREE: Initial and Intermediate Cluster Mastery (grades 9-12)	Exploration of Technology builds on Level Two's foundation by extending the student's depth and breadth in the three clusters of Technology: Communication Technology (including graphics, photography, electronic communication, drafting/CAD, information storage/retrieval), Energy and Power (including instrumentation, electricity/electronics, transportation, fluid power), and Materials and Processes (including manufacturing, construction with synthetic and organic materials).
FOUR: Analysis and Synthesis (grades 9-12)	Analysis and synthesis and/or Research and Development courses are used to build analytical, synthesizing, and higher-order thinking skill and build depth in key areas of technology. They also offer rich interdisciplinary opportunities. Examples include robotics, digital electronics, biotechnology, and technological problem solving.

The Mission and Vision Statement above can be found on the Missouri Technology Education Information Center Web site at: <http://www.dese.state.mo.us/divvoted/industrial/TechEd/TechEdIndex.htm>.

TEAM Summer Conference Program Technology Education Division

Monday, July 23

- 9:30 a.m. **Missouri ACTE Board of Directors Meeting**
– University Plaza Convention Center, Oklahoma Room

- 10:00 a.m. **TEAM Taskforce Meeting:**
– Pear Tree Inn, Conference Room

- 1:00 p.m. **TEAM Presidents' Advisory Meeting**
– Pear Tree Inn, Conference Room

- 2:30 p.m. **TEAM Executive Board Meeting**
– Pear Tree Inn, Conference Room

- 2:00 – 7:00 p.m. **Missouri ACTE/TEAM Registration Opens**
– University Plaza Trade Center

- 2:00 – 7:00 p.m. **Trade Show and Exhibits Open**
– University Plaza Trade Center

- 6:00 – 7:00 p.m. **Reception with Exhibitors**
– University Plaza Trade Center

- 7:00 p.m. **TEAM Dinner Adventure**
– Circle the Wagons at the Pear Tree Inn Lobby
Mark Arnold, "Wagon Master"
(Dinner location to be released at departure.)

Tuesday, July 24

- 7:45 – 8:45 a.m. **TE Grant Awards Program FY 01
Post Service Meeting**
– University Plaza Trade Center, Carver Room.

If you would like more information about the Technology Education Grant Awards Program, you can view all related information and guidelines on the Missouri Technology Education Web site at: <http://www.dese.state.mo.us/divvoted/industrial/TechEd/TechEdIndex.htm>

- 8:00 a.m. – 1:00 p.m. **Trade Show and Exhibits Open**
– *University Plaza Trade Center*
- 8:00 a.m. – 5:00 p.m. **Missouri ACTE/TEAM Registration Open**
– *University Plaza Trade Center*
- 8:00 a.m. **All Missouri ACTE Committee Meetings**
– *University Plaza, Colorado Room*
- 9:15 – 10:15 a.m. **Missouri ACTE New Professional Reception**
– *University Plaza, Oklahoma & Kansas A-B Rooms*
- 10:30 – 12:00 Noon **Missouri ACTE Opening General Session**
– *University Plaza Convention Center*
- 1:00 – 2:15 p.m. **TEAM General Business Meeting and Elections**
– *University Plaza Trade Center, Lower Level*
Mark Koca, Presiding
- 2:30 – 4:30 p.m. **TE Technology Festival**
– *University Plaza Trade Center, Lower Level*
All Missouri ACTE attendees are invited.
- 6:00 – 9:00 p.m. **TEAM Division Social and Dinner**
– *TBA*
Pick-up Maps at General Business Meeting or
Pear Tree Inn Lobby. All TEAM and MITEA Division
members and guest are invited.

Wednesday, July 25
(SMSU Campus)

TEAM Workshops

- 7:30 – 8:20 a.m. **TEAM Reception** (Juice & coffee, donuts, meet and greet)
– *Kemper Hall Lobby*
Hosted by the SMSU Department of Technology
- 8:30 – 9:20 a.m. **Opening Session:**
– *Glass Hall, Room 101*
Guest Speaker
Rick Carlton, Presiding
TEAM Presentations and Announcements

Technology Education *Breakout* Sessions
(Open to all Missouri ACTE attendees)

1st Breakout Sessions

9:30 – 10:35 a.m.

- I. Gender Equity in Career and Technical Education
– *Kemper Hall, Room 100*
Jean Cole, Vocational Special Services
- II. Preparing for MSIP III (CSIP)
– *Kemper Hall, Room 206*
Garry Keltner, Area Supervisor of Instruction
- III. A+ Networking and Information Technology
– *Kemper Hall, Room 207*
Roy Wright, Aidex Corporation
- IV. TSA Advisor Training for New and Old
– *Kemper Hall, Room 205*
TSA Board of Directors: Dr. Gary Schreiner, President;
Ted Wilkinson, President-Elect
- V. The CO² Dragster Techno Isel Templates Revisited
– *Kemper Hall, Room 102*
Dustin Spieth, Depco Inc.
- VI. A+ Computer Repair and Maintenance
– *Kemper Hall, Room 107*
Bill Smith, Depco Inc.
- VII. TE Standards, Assessment and Accountability
Kemper Hall, Room 220
Ben Yates, Assistant Professor, Graphics Department, CMSU
- VIII. Around the Pole Flight
– *Kemper Hall, Room 116*
Robert Walker, Hazelwood Junior High School

2nd Breakout Sessions

10:45 – 11:50 a.m.

- I. Gender Equity in Career and Technical Education
– Kemper Hall, Room 100
Jean Cole, Vocational Special Services
- II. TE GAP FY-02 Pre-Service Workshop
– Kemper Hall, Room 205
Doug Miller, Department of Elementary and Secondary Education
- III. A+ Networking and Information Technology
– Kemper Hall, Room 207
Roy Wright, Aidex Corporation
- IV. Making the Transition from Industrial Arts to Technology Education
– Kemper Hall, Room 206
David Behm and Bill Craine, Parkway South High School
- V. Practical Technology Learning Units
– Kemper Hall, Room 220
Ron Mckee, Custom Educational Supplies
- VI. The CO² Dragster Techno Isel Templates Revisited
– Kemper Hall, Room 102
Dustin Spieth, Depco Inc.
- VII. A+ Computer Repair and Maintenance
– Kemper Hall, Room 107
Bill Smith, Depco Inc.
- VIII. Around the Pole Flight
– Kemper Hall, Room 116
Robert Walker, Hazelwood Junior High School

Technology makes it possible for people to gain control over everything, except over technology.

– John Tudor

3rd Breakout Sessions

1:00 – 2:05 p.m.

- I. Gender Equity in Career and Technical Education
– Kemper Hall, Room 100
Jean Cole, Vocational Special Services
- II. Preparing for MSIP III (CSIP)
– Kemper Hall, Room 206
Garry Keltner, Area Supervisor of Instruction
- III. Finding and Utilizing TSA Resources on the WWW
– Kemper Hall, Room 205
TSA Advisors Team: Dr. Gary Schreiner, Immediate Past President;
Ted Wilkinson, President
- IV. A+ Networking and Information Technology
– Kemper Hall, Room 207
Roy Wright, Aidex Corporation
- V. TE Standards, Assessment and Accountability
– Kemper Hall, Room 220
Ben Yates, Assistant Professor, Graphics Department, CMSU
- VI. Non-Linear Editing in Video Production
– Kemper Hall, Room 102
Brian Pollock, Depco Inc.
- VII. A+ Computer Repair and Maintenance
– Kemper Hall, Room 107
Bill Smith, Depco Inc.
- VIII. Around the Pole Flight
– Kemper Hall, Room 116
Robert Walker, Hazelwood Junior High School

4th Breakout Sessions

2:15 – 3:20 p.m.

- I. Gender Equity in Career and Technical Education
– Kemper Hall, Room 100
Jean Cole, Vocational Special Services
- II. The Value of TSA
– Kemper Hall, Room 205
TSA Officers Team
- III. Making the Transition from Industrial Arts to Technology Education
– Kemper Hall, Room 206
David Behm and Bill Craine, Parkway South High School
- IV. A+ Networking and Information Technology
– Kemper Hall, Room 207
Roy Wright, Aidex Corporation
- V. Non-Linear Editing in Video Production
– Kemper Hall, Room 102
Brian Pollock, Depco Inc.
- VI. A+ Computer Repair and Maintenance
– Kemper Hall, Room 107
Bill Smith, Depco Inc.
- VII. Practical Technology Learning Units
– Kemper Hall, Room 220
Ron Mckee, Custom Educational Supplies
- VIII. Around the Pole Flight
– Kemper Hall, Room 116
Robert Walker, Hazelwood Junior High School

*The mediocre teacher tells. The good teacher explains.
The superior teacher demonstrates. The great teacher
inspires.*

– William A. Ward

3:30 p.m.

House of Delegates meeting

– University Plaza Convention Center

8:30 p.m.

All Division Social

– Quality Inn

Thursday July 26th

(SMSU Campus, Kemper Hall, Room 102)

9:00 – Noon

TEAM Project Ideas and Activity Exchange

– Knob Noster Middle School

Rick Carlton, Presiding

Implementing the TEAM Awards Program Guide and Expo
The TEAM Awards Program Committee

12:00 – 1:00 p.m.

Lunch on your own.

1:00 p.m.

Missouri ACTE Board of Directors Meeting

– University Plaza, Colorado Room

3:00 – 6:00 p.m.

Missouri TSA CERC Team Meeting

(Curriculum Event Resource Committee)

– Pear Tree Inn, Conference Room

All Missouri TSA Advisors are invited to attend
this planning meeting.

Friday, July 27

8:00 a.m. – Noon

Missouri TSA, Inc. Corporate Meeting and Board of Directors Meeting

– Pear Tree Inn, Conference Room

*Summer Conference concluded – see you
at Fall Conference (CMSU, Warrensburg)!*

Below is a copy of the Missouri Technology Education Web site. It contains numerous helps and resources. You can check it out at:
<http://www.dese.state.mo.us/divvoted/industrialed/TechEd/TechEdIndex.htm>

Welcome to the Technology Education Information Center

This Information Center and/or its subsequent pages are updated weekly with new information and resources for Technology Education

Technology Education	Contents
<p>tech•nol•o•gy (tek 'nä lə jē) <i>n.</i></p> <p>[Gr <i>technologia</i>, systematic treatment: see TECHNIC & -LOGY]</p> <ol style="list-style-type: none"> 1. the science or study of the practical or industrial arts, applied sciences, etc. 2. the terms used in a science, etc.; technical terminology 3. applied science 4. a method, process, etc. for handling a specific technical problem 5. the system by which a society provides its members with those things needed or desired <p>Webster's New World Dictionary & Thesarus, 1997</p>	<p>Capstone Project</p> <p>Missouri Mission and Vision</p> <p>National Standards for Technology Education Information</p> <p>MITE (Missouri Institute for Technology Education)</p> <p>Grant Awards Program</p> <p>Become a Technology Education Teacher</p> <p>Missouri TSA (Technology Student Associaton)</p> <p>Missouri ACTE (Association for Career and Technical Education) Summer Conference Information</p>

technology
the application of scientific discoveries to the production of goods and services that improve the human environment. It includes the development of new materials, machinery, and processes that improve production and solve technical problems. Since World War II, technology has been increasingly applied at the microscopic level. Recent advances include the development of computers, the invention of the laser and new synthetic substances, improvement in medical research, and space travel and exploration. Technology has also created such problems as technological unemployment and environmental pollution.
The Concise Columbia Electronic Encyclopedia, Third Edition Copyright© 1994, Columbia University Press.

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Notes

